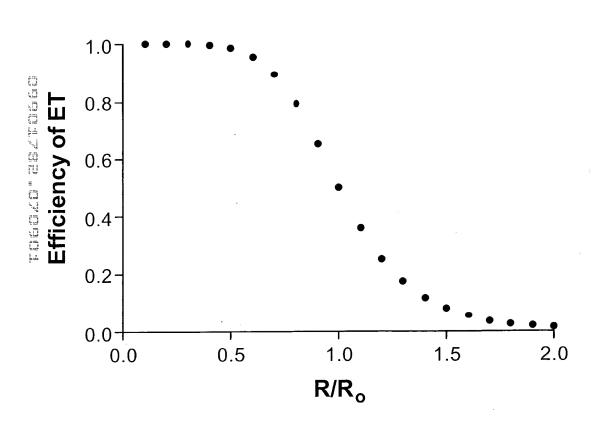
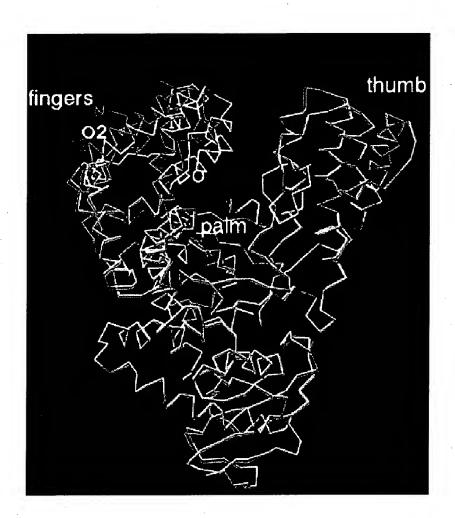
$$E = R^{-6}/(R^{-6} + R_0^{-6})$$



F14.1



F14.2

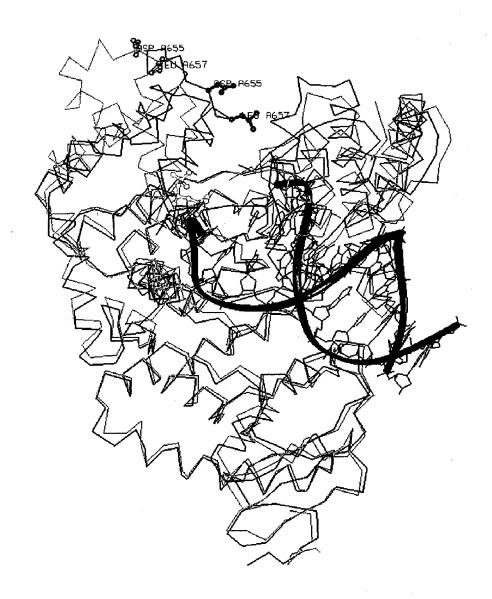
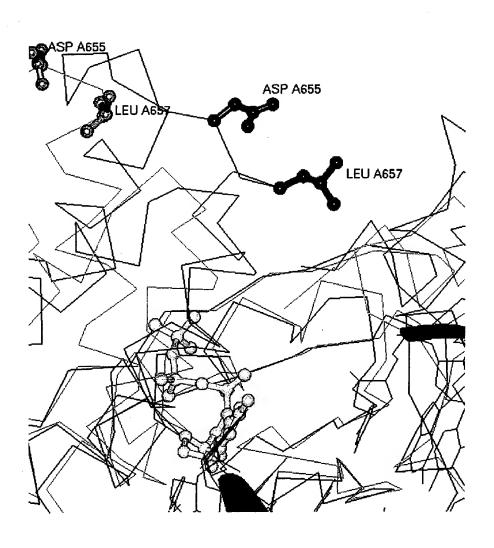


FIG. 3A



F14.3B



F1G.3c

F14.4

Primer Strand: 5 ' GGT ACT AAG CGG CCG CAT G 3' TOP Template Strands: вот-т 3' CCA TGA TTC GCC GGC GTA CTC 5' CCA TGA TTC GCC GGC GTA CCC 5' BOT-C 3' CCA TGA TTC GCC GGC GTA CGC 5' BOT-G 3' CCA TGA TTC GCC GGC GTA CAC 5' BOT-A 3' BOT-3T 3' .CCA TGA TTC GCC GGC GTA CTT TC 5' BOT-Sau 3' CCA TGA TTC GCC GGC GTA CCT AG 5'

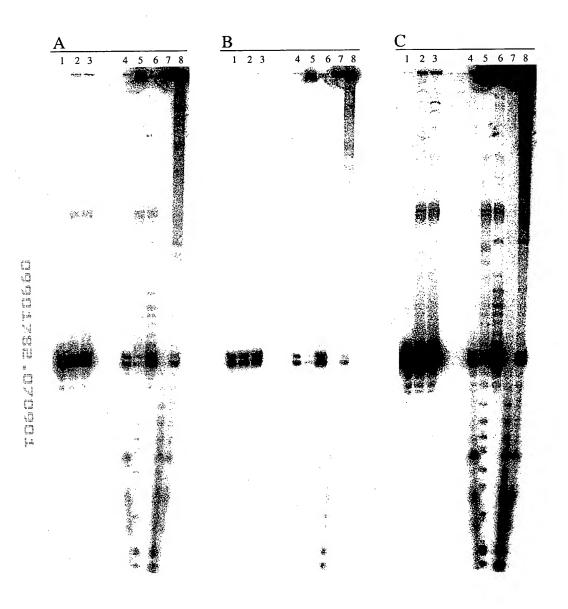
Incorporate: GATC AG AAAG (5' to 3')



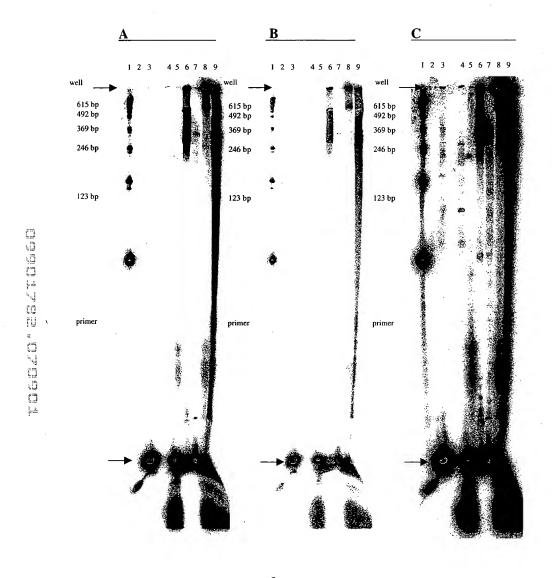
4 base extension
3 base extension
2 base extension
1 base extension
19 base "TOP"

Lane 1 2 3 4 5 6 7 8 9 10 12

F14.5



F16. 6

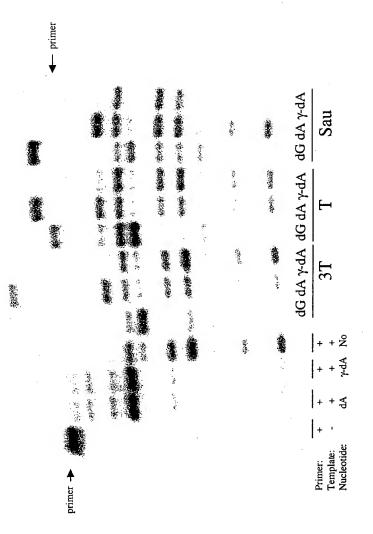


F16.7

				Klenow									Taq	
	Enzyme	-	+	+	+	+	+	+	+	+	+	+	+	
	Primer (TOP)	+	+	+	+	+	+	+	+	+	+	+	+	
	Template	-	_B(<u>)T -</u>	<u>3T</u>	_B	<u> OT -</u>	<u>· T</u>	<u>B</u> (<u>OT -</u>	Sau	<u>BO</u>	<u>r - 3T</u>	
	Nucleotide	-	dG	dA	γΑ	dG	dA	γΑ	dG	dA	γΑ	dA	γΑ	
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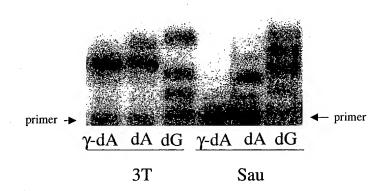
F16, 8

Pfu Primer Extension Assays



F16. 9

- Primer Strand:
 Top 5' GGT ACT AAG CGG CCG CAT G 3
- Template Strands: GCC 3Т 3*'* CCA TGA TTCGGC GTA CTT Sau CCA TGA TTC GCC GGC GTA CCT AG 5'



F16 10

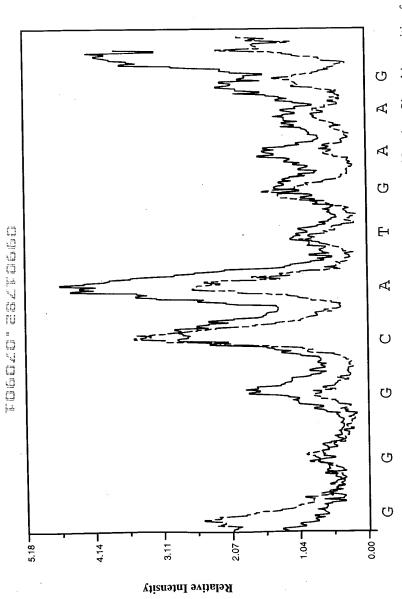
Primer Strand:

Top 5' GGT _T AAG CGG CCG CAT G

Template Strands:

TTC GCC GGC GTA CTT TC 5' BOT-3T 3′ TGA CCA AG 5' 3′ CCA TGA TTCGCC GGC GTA CCT BOT-Sau

F16.11



corresponds to reaction products produced when four natural nucleotides (dATP, dCTP, dGTP and dTTP) are included in nucleotides are included in the reaction. As is clearly demonstrated, sequence context and base modification(s) influence nucleotide in the extended DNA strand are used to determine, confirm or support base identity data. The solid green line reaction product intensity and/or reaction kinetics, and these identifying patterns are incorporated into proprietary basethe synthesis reaction. The dashed red line corresponds to reaction products produced when proprietary, base-modified Signal Intensity and Reaction Kinetics Provide Information Concerning Base Identity. Signal intensities for each calling software to provide a high confidence value for base identity at each sequenced position.

F16 12